Product Evaluation

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: WIN-1977

Effective Date: April 1, 2015
Re-evaluation Date: October 2017

Product Name: Integrity Fiberglass Clad Wood Double Hung Windows, Impact Resistant

Manufacturer: Integrity from Marvin Windows and Doors
1512 9th Street NE
West Fargo, ND 58078
(701)364-1139

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Fiberglass Clad Wood Double Hung Window; X/X	LC-PG55 30x68 Missile Level D	+55 / -65 psf
2	Fiberglass Clad Wood Double Hung Window; X/X	LC-PG55 30x76 Missile Level D	+55 / -65 psf
3	Fiberglass Clad Wood Double Hung Window; X/X	LC-PG55 42x76 Missile Level D	+55 / -65 psf
4	Fiberglass Clad Wood Double Hung Window; X/X	LC-PG55 42x68 Missile Level D	+55 / -65 psf

Product Dimensions:

System	Overall Size	Upper Panel Size	Lower Panel Size
1	29-1/2" x 67-3/4"	26-15/16" x 26-15/16"	26-15/16" x 38-15/16"
2	29-1/2" x 75-3/4"	26-15/16" x 36-15/16"	26-15/16" x 36-15/16"
3	41-1/2" x 75-3/4"	38-15/16" x 36-15/16"	38-15/16" x 36-15/16"
4	41-1/2" x 67-3/4"	38-15/16" x 26-15/16"	38-15/16" x 38-15/16"

Product Identification (Certification Label on Window):

System		
1, 2, 3, 4	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Integrity from Marvin
	Product Name	Integrity Impact Double Hung IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E 1886-02/05; ASTM E 1996-02/05 Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1, 2, 3, 4	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies

Installation Option (One of the following):

Option 1: Use a minimum Southern Yellow Pine dimension lumber for the wood wall-framing members. Secure the assembly to the wall framing using the nailing fin and the frame. Secure the nailing fin to the wall framing with minimum 11-gauge roofing nails (minimum 2" long smooth shank) spaced approximately 4" from each corner and approximately 8" on center along perimeter. Install installation clips (6" or 10" x 1.563" x 0.0478" galvanized steel) along the head and side jamb. Secure the installation clips to the assembly frame with three (3), minimum No. 7 x 5/8" screws and to the wall framing with three (3), minimum No. 8 screws. Locate the clips approximately 6" from each corner and approximately 18" on center. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall-framing members.

Option 2: Use a minimum Southern Yellow Pine dimension lumber for the wood wall-framing members. Secure the assembly to the wall framing using the frame. Install structural brackets (2.727" x 1.562" x 0.050" galvanized steel) along the head, sill, and side jamb. Secure the brackets to the assembly frame with two (2), minimum No. 7 x 5/8" screws and to the wall framing with two (2), minimum No. 8 screws. Locate the brackets approximately 6" from each corner and approximately 18" on center. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall-framing members.

Note: Keep the manufacturer's installation instructions at the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.